Mukul Shingwani

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Education

Indian Institute of Technology, Jodhpur Nov. 2020 – Aug 2024
Bachelor of Technology in Artificial Intelligence and Data Science *Current CG : 8.87*

Delhi Public School, Dwarka Mar 2008 – May 2020
P-C-M with Computer Science *Percentage : 94.25*

Position of Responsibilities

Associate Head, E-cell Dec 2021 – Present
IIT jodhpur *Jodhpur, IND*
- Managing,conducting and bringing sponsors for various events related to entrepreneurship and related domains

Internship Representative, Placement and Internship Cell May 2022 – Present
IIT jodhpur *Jodhpur, IND*
- Forming and Managing the database of Intern and placement opportunities in various MNC's and Startups
- communicating and interacting with the Industry people to get them on board with on campus Recruitment drive

Projects

Flood Forecasting Feb 2022 – Jun 2022
Python,LSTM,ARIMA,DeepLearning **Github Link**
- Delineation of selected 14 watersheds in the Godavari Basin and analysis of seasonality and trend of forcing, stage discharge data using Sen Slope Method, Spatial & Temporal plots.
- Implementation of ARIMA Model along with Stationarity check, analysis of ACF & PACF plots, and Bi-directional LSTM model for the delineated watershed basin

WebApp for COVID-19 detection using chest X-ray Apr 2022 – May 2022
Python,CNN,Resnet,DeepLearning **Github Link**
- Developed a model to detect COVID-19 from the frontal images of chest X-ray and achieved 93.28% accuracy
- Did Lung segmentation using U-Net model,made a Scratch VGG model and Implemented multi-modality by concatenating the feature maps from Lung segmented,Non lung segmented and whole X-ray image to classify them
- Used VGG-19 model and hosted a web application where user would be able to upload X-rays and get the result

WebApp for Flight price prediction Apr 2022 – Apr 2022
Python,AutoML,sklearn **Github Link**
- Developed a Flight price predictor model using Neural Networks to predict prices of flights, achieved a r2-score of 0.87 and deployed the model and website using javascript and Github

Scheduling Algorithms Feb 2022 – Feb 2022
C++,python,Operating systems **Github Link**
- Implemented FCFS, SJF, Non-preemptive SJF, Round Robin and priority schdeuling algorithms and used them to find ATT, AWT and ART to do comparative analysis

MedBuddy App Oct 2021 – Dec-2021
Flutter, dart, Firebase, Firestore **Github Link**
- Developed an application for slot booking and scheduling for medical assistance involving authentication and database management of user and doctor using Firebase and Firestore
- Built Interactive and user friendly UI for patient and doctor's interface with multiple features for user's ease

Technical Skills

Skills: Machine Learning, Competitive Programming, App Development, Web Development
Languages: C, C++, Python, MySQL, HTML, CSS, Javascript
Frameworks: Django, Flutter, Firebase
Libraries: pandas, NumPy, Matplotlib, Seaborn, Sklearn, PyTorch, Keras/tensorflow, NLTK

Academic Achievements

- Secured 2nd rank(A grade) in Pattern recognition and Machine Learning course
- Secured 3rd rank(A grade) in Data structures and algorithms course